

Resource Summary Report

Generated by [ASWG](#) on Jul 30, 2026

STOCK Smad4^{tm2.1Cxd/J}

RRID:IMSR_JAX:017462

Type: Organism

Proper Citation

RRID:IMSR_JAX:017462

Organism Information

URL: <https://www.jax.org/strain/017462>

Proper Citation: RRID:IMSR_JAX:017462

Description: Mus musculus with name STOCK Smad4^{tm2.1Cxd/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: SMAD family member 4; mutant stock: Smad4

Affected Gene: SMAD family member 4

Genomic Alteration: targeted mutation 2.1; Chu-Xia Deng

Catalog Number: JAX:017462

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Smad4^{tm2.1Cxd/J}

Record Creation Time: 20250513T053732+0000

Record Last Update: 20260725T044440+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Smad4^{tm2.1Cxd/J}.

No alerts have been found for STOCK Smad4^{tm2.1Cxd/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Hirade K, et al. (2025) Inhibiting KRAS with CD47 and immune checkpoint overcomes intrinsic resistance to combined KRAS and immune checkpoint inhibitor therapy. *Cell reports. Medicine*, 6(9), 102317.

Granados-Aparici S, et al. (2024) SMAD4 promotes somatic-germline contact during murine oocyte growth. *eLife*, 13.

Li Y, et al. (2024) TGF- β signaling promotes desmoid tumor formation via CSRP2 upregulation. *Cancer science*, 115(2), 401.

Kruger RE, et al. (2024) Smad4 is essential for epiblast scaling and morphogenesis after implantation, but nonessential prior to implantation in the mouse. *bioRxiv : the preprint server for biology*.

Yang D, et al. (2024) Loss of p53 and SMAD4 induces adenosquamous subtype pancreatic cancer in the absence of an oncogenic KRAS mutation. *Cell reports. Medicine*, 5(9), 101711.

Brioschi S, et al. (2023) A Cre-deleter specific for embryo-derived brain macrophages reveals distinct features of microglia and border macrophages. *Immunity*, 56(5), 1027.

Ramakrishnan G, et al. (2022) NF1 loss of function as an alternative initiating event in pancreatic ductal adenocarcinoma. *Cell reports*, 41(6), 111623.

Fujishita T, et al. (2022) The cAMP/PKA/CREB and TGF β /SMAD4 Pathways Regulate Stemness and Metastatic Potential in Colorectal Cancer Cells. *Cancer research*, 82(22), 4179.

Wang X, et al. (2020) Febrile Temperature Critically Controls the Differentiation and Pathogenicity of T Helper 17 Cells. *Immunity*, 52(2), 328.

Chang D, et al. (2020) The Conserved Non-coding Sequences CNS6 and CNS9 Control Cytokine-Induced Rorc Transcription during T Helper 17 Cell Differentiation. *Immunity*, 53(3), 614.

Sakai M, et al. (2019) Liver-Derived Signals Sequentially Reprogram Myeloid Enhancers to Initiate and Maintain Kupffer Cell Identity. *Immunity*, 51(4), 655.